

Dictionary of AFS Data Elements Included in IDEA

1.0 AFS Data Elements Included in IDEA

The Integrated Data for Enforcement Analysis (IDEA) system incorporates data from 17 databases. IDEA makes copies of the source database files and incorporates the data into its own “shadow files”. Among the databases that IDEA draws from is the AIRS Facility Subsystem (AFS). AFS is a component of the Aerometric Information Retrieval System (AIRS).

1.1 AFS DESCRIPTION

AIRS is a computerized database management system for airborne pollution in the United States consisting of four subsystems. Each subsystem addresses a different (but in many cases related) aspect of the Clean Air Act regulatory requirements. AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different AIRS Subsystem (AMS)). IDEA’s AFS file currently does not contain any data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. IDEA does include data on non-federally reportable facilities, including facilities that are planned, under construction, operate seasonally, temporarily shut down, and shut down.

While AFS maintains data at several levels of detail on an air source, IDEA focuses on the data at the plant level. Plant-level data treats the entire facility as one unit rather than looking at individual emission points, processes, or stacks. Data reported at the plant level include:

- General Source Information—identification number, name, location, etc.
- Plant Compliance Status—Plant-wide, worst case status.
- Significant Violator Information.
- Air Program Information—a repeating block of data addressing each regulatory area that a facility is subject to (e.g., SIP, NSPS, NESHAP, PSD). Each Air program offers data on the following:
 - Historical Compliance Status (quarterly for the past two years—1992 to present)
 - Pollutant Information (identifiers, classifications, compliance status, etc.)
 - Action/Activity Data (inspections, enforcement actions, etc.—1978 to present)
 - Operating Status

Only certain data elements from AFS are incorporated into IDEA. Furthermore, IDEA has created numerous derived fields; that is, data fields that do not exist in AFS, but were derived from one or more AFS fields.

This document contains the AFS Data Element table as well as definitions of the AFS data elements that exist in IDEA. The AFS data element table in Section 1.2 presents the AFS data elements by table, parallel to the data's hierarchical relationships in IDEA. Section 2.0, *AFS Data Element Definitions* lists each AFS data element present in IDEA in alphabetical order.

1.2 AFS DATA ELEMENTS BY GROUP

The table below lists the AFS elements that appear in IDEA by their database group. If you wish to view AFS data elements arranged alphabetically, please refer to Attachment 1, *AFS Data Elements (by data element name)*. The following points should be considered when referencing these data element listings:

- A data element must be indexed to be used in an IDEA query. Refer to the 'Index?' column of the table to see whether or not a data element is indexed.
- In order to access sensitive data elements, users must have Enforcement Sensitive access. Refer to the 'Sensitive?' column of the table to see whether or not the data element is enforcement sensitive.
- Italicized data elements indicate single and multiple indexing elements. These elements are created in IDEA to make it easier for the user to search on a portion of a data field, or to search on more than one data field at a time.
- Data elements in the same group are all either repeating fields or not. Refer to the 'Repeat Record' column of the table to see whether or not the data element is a repeating field. In repeating groups, a 'K' in parentheses denotes the data element(s) that uniquely determine the record, the "keyed" elements.

AFS Data Elements (by group)						
Repeat Record	Element Name	Index? (Y/N)	Enf. Sens?	Data Type	Length	Name
AFS ID (A)						
N	AFSID	Y	N	Char	10	AFS Identifier: State-County-Plant Number
PROGRAM CODE (B)						
N	APC1	Y	N	Char	1	Air Program Code
SOURCE (A)						
N	REGN	Y	N	Char	2	Region
	AQCA	Y	N	Num	3	Air Quality Control Region Number
	PNME	N	N	Char	26	Plant Name

AFS Data Elements (by group)						
Repeat Record	Element Name	Index? (Y//N)	Enf. Sens?	Data Type	Length	Name
	STRT	N	N	Char	30	Plant Street Address
	CYNM	N	N	Char	30	Plant City
	SIC1	Y	N	Num	4	Primary SIC Code
	SIC2	Y	N	Num	4	Secondary SIC Code
	SICC	Y	N	Num	4	SIC Code (Primary or Secondary)
	SVI1	Y	N	Char	1	Significant Violator Flag 1
	SVI2	Y	N	Char	1	Significant Violator Flag 2
	SVI3	Y	N	Char	1	Significant Violator Flag 3
	SVI4	Y	N	Char	1	Significant Violator Flag 4
	DCS1	Y	N	Char	1	EPA Compliance Status
	DCL1	Y	N	Char	2	EPA Classification Code
	GOVT	Y	N	Char	1	EPA Governmental Facility Code
	HASH	Y	N	Char	100	Primary Name Hash
	HASHSEL	Y	N	Char	4	Primary Name Hash Index
	VIOLQTR	Y	N	Num	2	# Quarters in Violation—last 2 years
	INSPDAY	Y	N	Num	5	Days Since Last Inspection
	FEDREP	Y	N	Char	1	Federally Reportable? (Y/N)
	STAB	Y	N	Char	2	AFS State Code
	OPST	Y	N	Char	1	Operating Status
	ZIPC	Y	N	Char	9	Zip Code
	SNCMNT	Y	N	Num	2	Months of SNC—last 2 years (SVI1-based)
	SNCMTH2	Y	N	Num	2	Months of SNC—last 2 years (HSV11 and HDCS1)
	SNCCONT	Y	N	Num	2	Months of Continuous SNC
	MDR	Y	N	Char	1	National Minimum Data Requirements (Y/N)
	RECAP	Y	N	Char	1	National Accountability Measures (Y/N)
HISTORIC COMPLIANCE (A)						
Y	HMONTH(K)	Y	N	Date	4	Date of Historical Compliance Extract from AFS (YYYYMM)
	HSV11	Y	N	Char	1	Historical Significant Violator Flag
	HDCS1	Y	N	Char	1	Historical EPA Compliance Status
SVADDR						
Y	SVSEQ(K)	Y	S	Char	1	SV Sequence Number
	SVADDR	Y	N	Num	4	Months to Address Continuous Unaddressed SV Status
	SVMNTH	Y	N	Num	6	Latest Month Counted in SVADDR (YYYYMM)
HISTORIC COMPLIANCE (B)						
Y	HDT1(K)	Y	N	Date	5	Historical Compliance Date (YYYYYQ)
	DCH1	Y	N	Char	1	Historical Compliance Status
POLLUTANT (B)						
Y	PLAP(K)	Y	N	Char	5	Pollutant Code
	CAPP(K)	Y	S	Char	9	CAS Number
	DCAP	Y	N	Char	1	Pollutant Compliance Status
	DCLP	Y	N	Char	2	Pollutant Classification
	DATT	Y	N	Char	1	Attainment/Non-Attainment Indicator
ACTIONS (B)						
Y	DTA1(K)	Y	S	Date	8	Date Achieved (YYYYMMDD)
	ACSEQ(K)	N	S	Num	4	Sequence Number
	ANT1	Y	N	Char	2	National Action Type
	PAM1	Y	N	Num	7	Penalty Amount (in thousands of dollars)
ACTIONS (Rolled-up)						
Y	ANU1(K)	Y	S	Num	3	Action Number
	IS17(K)	N	S	Char	5	Indirect State Source ID
	RDTA1	Y	N	Date	8	Date Achieved
	RANT1	Y	N	Char	2	National Action Type
	RATP1	Y	N	Char	2	Regional Action Type
	RPAM1	Y	N	Num	7	Penalty Amount

AFS Data Elements (by group)						
Repeat Record	Element Name	Index? (Y//N)	Enf. Sens?	Data Type	Length	Name
	RAPCALL	Y	N	Char	11	Air Program Codes—all
	RAPC	Y	N	Char	1	Air Program Codes Index
ACTIONS (Detail)						
Y	DANU1(K)	Y	S	Num	3	Action Number Detail
	DIS17(K)	N	S	Char	5	Indirect State Source ID Detail
	DDTA1	Y	N	Date	8	Date Achieved Detail
	DANT1	Y	N	Char	2	National Action Type Detail
	DATP1	Y	N	Char	2	Regional Action Type Detail
	DPAM1	Y	N	Num	7	Penalty Amount Detail
	DAPCALL	Y	N	Char	11	Air Program Codes Detail
	DAPC	Y	N	Char	1	Air Program Codes Index
AIR PROGRAM						
N	AST1	Y	N	Char	1	Air Program Status
	DLA1	Y	N	Char	2	EPA Classification Code
	DCA1	Y	N	Char	1	EPA Air Program Compliance Status
	RVDT	Y	N	Num	6	Repeat Violation Date
	TURN	Y	N	Num	3	Turnover Compliance Flag
	INFE	N	N	Char	2	Even Inspection Frequency
	ISGE	Y	N	Char	1	Even Inspection Strategy
	YIFE	Y	N	Char	2	Even Year of Inspection Frequency
	INFO	Y	N	Char	2	Odd Inspection Frequency
	ISGO	Y	N	Char	1	Odd Inspection Strategy
	YIFO	Y	N	Char	2	Odd Year of Inspection Frequency

2.0 AFS Data Element Definitions

The following is a list of all AFS data elements and AFS-derived elements that appear in IDEA. The data elements are listed alphabetically by data element name. Detailed explanations and codes are contained in the appendices.

ACSEQ (Action Sequence Number) A unique number up to four digits assigned to an action for any given date. If there is only one action on a given date, then IDEA assigns an Action Sequence Number of 01 (one). For multiple actions on the same date, each is assigned a unique Action Sequence Number from 01 to 9999.

AFSID (AFS Identifier) A ten-character alphanumeric code which uniquely identifies each permitted plant. A combination of the state code, the county code and the unique AFS plant ID compose the AFSID.

ANT1 (National Action Type) A two-character code identifying a compliance activity. The National Action Type field translates region-specific action type codes to the corresponding EPA Region compliance activity code. See Appendix A for National Action Type codes.

ANU1 (Action Number) A three-digit numeric plant action identifier.

APC1 (Air Program Code) A one-character code used to identify 1) the regulatory air program(s) that applies to a particular plant or point, and 2) the regulatory air program(s) authorizing and associated with an action taken by a local, state or federal regulatory agency. Air Program Code values include:

- A = Acid Precipitation
- I = Native American
- M = MACT (Section 63 NESHAPS)
- V = Title V Permits
- 0 = SIP Source
- 1 = SIP Source under federal jurisdiction
- 3 = Non-Federally Reportable Source
- 4 = CFC Tracking
- 6 = PSD
- 7 = NSR
- 8 = NESHAP
- 9 = NSPS

AQCA (Air Quality Control Region Number) A three-character code that indicates the air quality control region where the plant is located. The Air Quality Control

Region is generated from the AFS FIPS Area Table, based on user-supplied plant, state, and county values.

AST1 (Air Program Status) A one-character field that represents the operational condition of the plant associated with a given Air program. Valid Air Program Status values include:

O = Operating

P = Planned (has applied for a construction permit)

C = Under construction

T = Temporarily closed

X = Permanently closed

I = Seasonal

CAPP (CAS Number) A nine-digit field that contains the CAS Number of the pollutant. The CAS Number is the number that the Chemical Abstract Service (CAS) assigns to a pollutant.

CYNM (Plant City Name) A field that contains the name of the city or town where the plant is located. The field may be up to thirty characters long.

DANT1 (National Action Type) A two-character code identifying a compliance activity. The National Action Type field translates region-specific action codes to the corresponding EPA region compliance activity code. DANT1 appears in IDEA exactly as it appears in AFS. See Appendix A for National Action Type codes.

DANU1 (Action Number) A three-digit numeric plant action identifier. DANU1 appears in IDEA exactly as it appears in AFS.

DAPC (Air Program Codes Index) A single element index that allows the user to search the DAPCALL (Air Program Codes) field. Using the DAPC element, users can search for an occurrence of any air program code in any position of the DAPCALL field.

DAPCALL (Air Program Codes—detail) An eleven-character field that lists all of the air programs linked to an action (e.g., an inspection). Each program code is one character followed by a space. Up to six air program codes can be linked to a single action. DAPCALL appears in IDEA exactly as it appears in AFS. Air Program Codes include:

A = Acid Precipitation

I = Native American

M = MACT (Section 63 NESHAPS)

V = Title V Permits
0 = SIP Source
1 = SIP Source under federal jurisdiction
3 = Non-Federally Reportable Source
4 = CFC Tracking
6 = PSD
7 = NSR
8 = NESHAP
9 = NSPS

DATP1 (Regional Action Type) A two-character code that identifies a compliance activity. The Regional Action Type uses region-specific codes to identify a compliance activity. DATP1 appears in IDEA exactly as it appears in AFS.

DATT (EPA Attainment/Non-Attainment Indicator) A one-character code that identifies the criteria pollutant attainment status for the county in which the plant is located. A non-attainment area is an area where poor air quality exists. In the absence of an EPA value, this element displays the state attainment/non-attainment indicator value. See Appendix B for EPA Attainment/Non-Attainment Indicator codes.

DCA1 (EPA Air Program Compliance Status) A one-character code reflecting EPA's determination of compliance for a facility (or point within a facility) with regard to pollutants regulated by an Air program or by the procedural requirements of a permit. In the absence of an EPA value, this field displays the state value.

There are four compliance categories: In Compliance, Out of Compliance, On Schedule, and Unknown Compliance. AFS compares values entered at the plant Air program pollutant level to determine the most serious compliance violations. AFS displays these values at the plant Air program level. AFS, in turn, displays the most serious Air program values at the general plant level. Point level data is not evaluated for the purpose of determining worst case scenarios. See Appendix C for EPA Air Program Compliance Status codes.

DCAP (EPA Pollutant Compliance Status) A one-character code that reflects EPA's determination of compliance for a facility (or point within a facility) with regard to pollutants regulated by an air program or by the procedural requirements of a permit. In the absence of an EPA value, this field displays the state value.

Compliance falls within four categories: In Compliance, Out of Compliance, On Schedule, and Unknown Compliance. AFS compares the values entered at the plant air program pollutant level to determine the most serious compliance violations. AFS displays these values at the plant Air program level. In turn, AFS displays the most serious air program values at the general plant level.

Point level data is not evaluated for the purpose of determining worst case scenarios. See Appendix C for EPA Pollutant Compliance Status codes.

DCH1 (Historical Compliance Status) A one-character code reflecting EPA's determination of compliance for a facility (or point within a facility) with regard to pollutants regulated by an Air program or by the procedural requirements of a permit. In the absence of an EPA value, this field displays the state value.

There are four compliance categories: In Compliance, Out of Compliance, On Schedule, and Unknown Compliance. AFS compares values entered at the plant program pollutant level to determine the most serious compliance violations. AFS displays these values at the plant Air program level. AFS, in turn, displays the most serious Air program values at the plant general level. Point level data is not evaluated for the purpose of determining worst case scenarios. See Appendix C for EPA Plant Compliance Status codes.

DCL1 (EPA Classification Code) A two-character code that categorizes plants according to the Alabama Power Decision's definition of a Major Source, or the 1993 EPA Compliance Monitoring Branch Classification Guidance. If there is no EPA Classification Code present, then this field displays the State Classification Code value. AFS generates a plant classification reflecting the highest emission level classification of criteria pollutants regulated by an Air program. DCL1 reflects the EPA Classification Code at the general plant level. See Appendix D for EPA Classification code descriptions.

DCLP (EPA Pollutant Classification) A two-character code assigning a plant classification to individual criteria pollutants regulated by an Air program. In the absence of an EPA value, this field displays the state value. See Appendix D for EPA Pollutant Classification code descriptions.

DCS1 (EPA Plant Compliance Status) A one-character code reflecting the compliance status of the facility (or point within a facility) with regard to pollutants regulated by an Air program or by the procedural requirements of a permit. In the absence of an EPA value, this field displays the state value.

Compliance falls within four categories: In Compliance, Out of Compliance, On Schedule, and Unknown Compliance. AFS compares values entered at the plant Air program pollutant level. The most serious compliance violations are generated and displayed at the plant Air program level. In turn, AFS displays the most serious Air program values at the general plant level. AFS does not evaluate point level data for the purpose of determining worst case scenarios. See Appendix C for EPA Plant Compliance Status codes.

- DDTA1 (Date Achieved) An eight-character field that indicates the date (YYYYMMDD) of a completed compliance action. DDTA1 appears in IDEA exactly as it appears in AFS.
- DIS17 (Indirect State Source ID) A five-character source ID submitted by users tracking more than one compliance ID for the same plant. Indirect source IDs are appended to plant, point, and segment level records to help users verify duplicate compliance point, action and comment records. This eliminates the need to renumber key record identifiers when merging two CDS sources. DIS17 appears in IDEA exactly as it appears in AFS.
- DLA1 (EPA Classification Code) A two-character code that categorizes plants according to the Alabama Power Decision's definition of a Major Source, or the 1993 EPA Compliance Monitoring Branch Classification Guidance. In the absence of an EPA Classification Code value, this element displays the State Classification Code value. The plant classification reflects the highest emission level classification of criteria pollutants regulated by an Air program. DLA1 represents the EPA Classification Code at the Air program level. See Appendix D for EPA Classification code descriptions.
- DPAM1 (Penalty Amount) A field (up to seven digits long) that indicates the amount of the civil penalty assessed against a facility in the final agreement between the enforcement authority and the plant. DPAM1 appears in IDEA exactly as it appears in AFS.
- DTA1 (Date Achieved) An eight-digit field that indicates the date (YYYYMMDD) of a completed compliance action.
- FEDREP (Federally Reportable) A one-character field that indicates whether or not a facility is federally reportable. IDEA generates the Federally Reportable indicator. FEDREP displays a "Y" if the facility is federally reportable and a "N" if the facility is not federally reportable. A facility is federally reportable if:
- AFS.DCL1 = A, A1, A2, SM
OR
AFS.APC1 = 8, 9 and AFS.DCS1 is not equal to 8.
- GOVT (Governmental Facility Code) A one-character code that identifies facilities owned or operated by a governmental unit. Governmental Facility Code values include:
- 0 = Source owned or operated by the federal, state, or local government.
1 = Source owned or operated by the federal government.
2 = Source owned or operated by the state.

- 3 = Source owned or operated by the county.
- 4 = Source owned or operated by the municipality.
- 5 = Source owned or operated by the district.

HASH (Primary Name Hash) A field that contains the hash name of the primary plant name. The hash name includes the first letter of each word in the plant name and the next three consonants thereafter. The hash name excludes vowels unless they are the first letter in a name. If the word contains consecutive double consonants (e.g., bottle), only one is included in the hash name (e.g., btl). Each word of the plant name occupies four characters of the HASH field; spaces are inserted for those words whose hash name is not four characters long.

HASHSEL (Primary Name Hash Index) A single element index that allows the user to search the HASH field for any word in the plant name regardless of its position in the HASH field.

HDCS1 (Historical EPA Compliance Status) A one-character code that indicates the Historical EPA Compliance Status of the facility. HDCS1 is an IDEA-generated element. It displays the archived AFS EPA Compliance Status (DCS1) data field. HDCS1 corresponds to HMONTH. HMONTH displays the historical date that IDEA refreshed its data from AFS. HDCS1 reflects the source status on the day of the historic extract (HMONTH). See Appendix C for EPA Compliance Status codes.

HDT1 (Historical Compliance Date) A five-character field that indicates the quarter (YYYYQ) associated with Historical Compliance Status (DCH1) values.

HMONTH (Historical Compliance Month) A six-character field that displays the year and month (YYYYMM) that correspond to the HSVI1 and HDCS1 values. IDEA generates the Historical Compliance Month field.

HSVI1 (Historical Significant Violator Flag) A one-character field that displays the archived Significant Violator Flag (SVI1). The Historical Significant Violator Flag is an IDEA-generated element that reflects the source status on the day that IDEA refreshed its data from AFS (HMONTH). See Appendix F for Significant Violator Flag codes.

INFE (Even Inspection Frequency) A two-character field that specifies the number of inspections to be performed for inspection frequency tracking, in the year indicated by Even Year of Inspection Frequency (YIFE).

- INFO** (Odd Inspection Frequency) A two-character field that specifies the number of inspections to be performed for inspection frequency tracking, in the year indicated by Odd Year of Inspection Frequency (YIFO).
- INSPDAY** (Days Since Last Inspection) A five-digit field that displays the total number of days that have elapsed from the IDEA refresh date to the most recent inspection. If the facility has never been inspected, then the field is blank. IDEA generates Days Since Last Inspection using DTA1 and ANT1 where ANT1 is equal to 1A, 2A, 5C, or 6C.
- IS17** (Indirect State Source ID) A five-character field that displays the source ID submitted by users tracking more than one compliance ID for the same plant. Indirect source IDs are appended to plant, point, and segment level records to help verify duplicate compliance point, action and comment records. This eliminates the need to renumber key record identifiers when merging two CDS sources.
- ISGE** (Even Inspection Strategy) A one-character field that indicates the reason for the inspection tracking in the Even Inspection Frequency (INFE) fields.
- ISGO** (Odd Inspection Strategy) A one-character field that indicates the reason for the inspection tracking in the Odd Inspection Frequency (INFO) fields.
- MDR** (National Minimum Data Requirements) A one-character field that indicates whether or not a facility is a MDR facility (Y/N). Regions and states must report on MDR facilities. MDR displays a "Y" (yes) under any of the following three circumstances:
1. The facility is a Major Source or a Synthetic Minor.
(DCL1 = A, A1, A2, SM, E1, or E2)
 2. The facility is a minor NESHAP or NSPS source.
(For any occurrence of APC1, APC1 = 8 or 9 and DCS1 is not equal to 8)
 3. For any occurrence of RANT1, RANT1 = 7E, 8A, 8C, 7A, or 7F
- OPST** (Operating Status) A one-character code that indicates the operational condition of the plant. The operating status for a plant is generated from the most significant operative value assigned to subordinate Air programs. Valid Operating Status codes, in order of least to most significant operative value, include:
- X = Permanently closed
P = Planned Facility

C = Under construction

T = Temporarily closed

I = Seasonal

O = Operating

PAM1 (Penalty Amount) A field (up to seven digits long) that indicates the amount of the civil penalty assessed against a facility in the final agreement between the enforcement authority and the plant.

PLAP (Pollutant Code) A five-character code that identifies a pollutant tracked at the air program level. See Appendix E for Pollutant Code values.

PNME (Plant Name) A field that contains the name associated with a plant at a given location.

RANT1 (National Action Type) A two-character code that identifies a compliance activity. The National Action Type field translates regional action codes to the corresponding EPA region compliance activity code. Duplicate national actions in this field have been “rolled up” and eliminated by IDEA to avoid double counting. See Appendix A for National Action Type codes.

RAPCALL (Air Program Codes—all) An eleven-character field that indicates all of the air programs linked to an action (e.g., an inspection). Each applicable one-character program code is displayed in the field and followed by a space. Up to six air program codes can be linked to a single action. Duplicates in the RAPCALL field have been “rolled-up” and eliminated by IDEA to avoid double counting.

RAPC (Air Program Codes Index) A single element index that allows the user to search on the data element RAPCALL. Using the RAPC element, users can search for an occurrence of any air program code in any position of the RAPCALL field.

RATP1 (Regional Action Type) A two-character code that identifies a compliance activity. The Regional Action Type uses region-specific codes to identify a compliance activity. Duplicate regional actions in this field have been “rolled up” and eliminated by IDEA to avoid double counting.

RTDA1 (Date Achieved) An eight-character field that indicates the date (YYYYMMDD) of a completed compliance action. Duplicate dates in this field have been “rolled up” and eliminated by IDEA to avoid double counting.

RECAP (National Accountability Measures) A one-character code that indicates whether or not the source is part of RECAP counting. For those facilities that are part of RECAP counting (RECAP = Y), the EPA tracks inspections,

violations, enforcement actions, etc. IDEA generates RECAP using DCL1. RECAP displays a “Y” (yes) when DCL1 is equal to A, A1, A2, or SM.

REGN (Region Code) A two-character code that identifies the EPA region in which the plant is located.

01	Boston, MA (CT, MA, ME, NH, RI, VT)
02	New York, NY (NJ, NY, PR, VI)
03	Philadelphia, PA (DC, DE, MD, PA, VA, WV)
04	Atlanta, GA (AL, FL, GA, KY, MS, NC, SC, TN)
05	Chicago, IL (IL, IN, MI, MN, OH, WI)
06	Dallas, TX (AR, LA, NM, OK, TX)
07	Kansas City, MO (IA, KS, MO, NE)
08	Denver, CO (CO, MT, ND, SD, UT, WY)
09	San Francisco, CA (AS, AZ, CA, CM, GU, HI, NV)
10	Seattle, WA (AK, ID, OR, WA)

RPAM1 (Penalty Amount) A field (up to seven digits long) that indicates the amount of the civil penalty assessed against a facility in the final agreement between the enforcement authority and the plant. Duplicate penalty amounts in this field have been “rolled up” and eliminated by IDEA to avoid double counting.

RVDT (Repeat Violation Date) A six-character field that indicates the year and month (YYYYMM) that a NESHAP, major SIP, or NSPS plant most recently completed a compliance cycle during which it was:

- 1) Out of compliance,
- 2) In compliance,
- 3) Out of compliance.

SIC1 (Primary SIC Code) A four-digit field that indicates the primary Standard Industrial Classification (SIC) code of the facility. The primary SIC code classifies the main product produced or service performed at the plant.

SIC2 (Secondary SIC Code) A four-digit field that indicates the secondary Standard Industrial Classification (SIC) code of the facility. The secondary SIC code classifies a product produced or service performed at the plant that is other than the one described by the Primary SIC Code (SIC1).

SICC (SIC Code—primary or secondary) A multiple element index that allows the user to search the SIC1 and SIC2 fields simultaneously. You can use this index to search for facilities that have a primary or a secondary SIC code that matches the one that you specified.

- SNCCONT** (Months of Continuous SNC) A two-digit field that indicates the number months, including the most recent month, where unaddressed significant violations exist continuously. Because SNCCONT counts back from the most recent month, the field is blank if there is no current significant violation. IDEA generates this field using HMONTH and HSVI1, where HSVI1 is equal to E, S, B, or X. See Appendix G for a detailed description and explanatory diagram.
- SNCMTH2** (Months of SNC—last 2 years) Like SNCMNTH, this field displays the number of months, in the last two years, where the facility had a significant violation. However, this field only includes a violation in its count if both a significant violation flag and a compliance flag (indicating noncompliance) were present in any given month. IDEA generates SNCMTH2 using HMONTH, HSVI1, and HDCS1, where HSVI1 is equal to E, S, B, X, C, F or T and HDCS1 is equal to B, W, 1, 6, or 7.
- SNCMNTH** (Months of SNC—last 2 years) A two-digit field that displays the number of months, in the last two years, in which the facility was in significant violation. IDEA generates SNCMNTH using HMONTH and HSVI1 where HSVI1 is equal to E, S, B, X, C, F or T.
- STAB** (State Code) The two-character postal abbreviation code that identifies the state where the plant is located.
- STRT** (Plant Street Address) A field that indicates the street address of the physical location of the plant.
- SVADDR** (Months to Address Continuous Unaddressed SV Status) A four-digit field that contains a count the number months where unaddressed significant violations exist continuously for SVSEQ=1 and SVSEQ=2. SVADDR includes only those series of continuous unaddressed significant violations that do not include the current month (this series is assessed by SNCCONT). IDEA generates this field using HMONTH and HSVI1 where HSVI1 is equal to E, S, B, or X. See Appendix G for a detailed description and an explanatory diagram.
- SVI1** (Significant Violator Flag 1) A one-character field that indicates major sources that are “significant violators,” and identifies the lead enforcement agency. Significant Violator Flag 1 indicates the status of the most current violation. See Appendix F for values.
- SVI2** (Significant Violator Flag 2) A one-character field that indicates major sources that are “significant violators,” and identifies the lead enforcement agency. Significant Violator Flag 2 indicates the status of the previous violation. See Appendix F for values.

- SVI3** (Significant Violator Flag 3) A one-character field that indicates major sources that are “significant violators,” and identifies the lead enforcement agency. Significant Violator Flag 3 indicates the status of the second most previous violation. See Appendix F for values.
- SVI4** (Significant Violator Flag 4) A one-character field that indicates major sources that are “significant violators,” and identifies the lead enforcement agency. Significant Violator Flag 4 indicates the status of the third most previous violation. See Appendix F for values.
- SVMNTH** (Latest month counted in SVADDR) A six-character field that indicates the year and month (YYYYMM) of the latest month of unaddressed significant violation status that was counted in the SVADDR sequence. SVMNTH corresponds to the appropriate SV Sequence Number (SVSEQ). IDEA generates this field using HMONTH and HSVI1 where HSVI1 is equal to E, S, B, or X. See Appendix G for a detailed description and an explanatory diagram.
- SVSEQ** (Significant Violation Sequence Number) A one-character field that indicates the period of continuous unaddressed significant violation status referred to by SVADDR. For any one source, IDEA counts only the two most recent periods of continuous unaddressed significant violation that occurred prior to the most current month. SVSEQ values may either be 1 or 2, where 1 is the most recent period of continuous unaddressed significant violation, and 2 is the second most recent. See Appendix G for a detailed description and an explanatory diagram.
- TURN** (Turnover Compliance Flag) A three-character field that indicates the number of times during its compliance monitoring history that a NESHAP, a major SIP, or a NSPS plant completed a cycle of:
- 1) Out of compliance,
 - 2) In compliance,
 - 3) Out of compliance.
- VIOLQTR** (Number of Quarters in Violation—last two years) a one-digit field that displays the number of quarters in which a facility was noncompliant in at least one air program in the last two years. IDEA generates VIOLQTR using HDT1 and DCH1. Possible values include 0, 1, 2, 3, 4, 5, 6, 7, and 8.
- YIFE** (Even Year of Inspection Frequency) A four-character field displaying the year associated with the Even Inspection Frequency (INFE) data. The year must be an even number and no greater than the current year plus one year.

YIFO (Odd Year of Inspection Frequency) A four-character field displaying the year associated with the Odd Inspection Frequency (INFO) data. The year must be an odd number and no greater than the current year plus one year.

ZIPC (Zip Code) A field that contains the five or nine-digit zip code for the plant address.

Appendix A

National Action Type Codes

Valid National Action Type values for ANT1, DANT1, and RANT1 include:

National Action Type Codes	
Code	Description
C1	113 Conference
C2	113 (D) APO recalculated
C3	113D Pen collected
C4	Final Compliance
C5	Order/decreed expires
C6	Amendment
C7	Close-out memo issued
C8	Decree lodged
DY	SV lead changed
ER	Compliance certification EPA review
HR	113D Hearing
RT	SV reported as addressed
RV	SV deleted
SE	113D Settlement
SR	Compliance certification state review
UB	113D UNMIT EC BEN
UC	113D UNMIT GRAV COMP
US	113D Total UNMIT PEN
VE	SV reported as added
VL	SV reported as added
VR	Violation resolved
WD	113D Withdrawn
1A	EPA inspection—level 2 or greater
1B	113 (D) (4) Innov. Tech. Order approved/issued
1C	EPA PSD application complete
1D	State criminal referral
1E	Civil referral to state attorney
1F	Contractor listing
2A	EPA source test conducted
2C	EPA PSD permit issued
2D	State court consent decree
2E	State day zero
2F	State day 120
2G	Contractor de-listing
2H	AHEARA certification
2I	AHEARA de-certification
2J	Notification received
2K	Compl. by state, no action required
2L	Proposed SIP revision will lead to
2M	Proposed SIP/FIP revision will lead to
2T	Federal day 150 (previous to 10/92 day
2Z	Federal day zero
3A	Owner/operator-conducted source test
3C	New source commence construction
3D	State civil penalty assessed

National Action Type Codes	
Code	Description
3E	Warning notification violation
3F	Warning substantive violation
4A	NESHAP waiver of compliance issued
4B	EPA civil referral
4C	New source start-up
4D	State noncompliance penalty assessed
4E	Civil referral notification by EPA
4F	Administrative order notification deficiency by
4G	Civil referral notification deficiency
4H	Administrative order substantive
4I	Civil referral substantive violation by
4J	Administrative order substantive violation by
4K	Civil referral substantive violation by
4L	EPA pre-NOV letter sent
5A	EA pre-NOV letter sent
5B	EPA criminal action
5C	State inspection—level 2 or greater
5D	State PSD applicability determination
6A	EPA NOV issued
6B	EPA court consent decree
6C	State source test conducted
6D	State PSD application complete
7A	Notice of noncompliance (Section 120)
7B	EPA civil penalty assessed
7C	State NOV issued
7D	State PSD permit issued
7E	EPA 167 order
7F	113D APO complaint filed
7G	Compl. by EPA, no act on required
8A	EPA 113 (A) order issued
8B	113(D) penalty order filled
8C	State administrative order issued
8D	Offset applicability determination
9A	113(D) delayed compliance order approved/issued
9B	EPA PSD applicability determination
9C	State civil action
9D	Offset permit issued
9Z	SVIL determination

Appendix B

EPA Attainment/Non-Attainment Indicator Codes

Valid EPA Attainment/Non-Attainment Indicator (DATT) codes include:

EPA Attainment/Non-Attainment Indicator Codes	
Code	Description
A	Attainment area for given pollutant
M	Moderate (for VOC, NO ₂ , CO, and Particulate)
S	Serious (for VOC, NO ₂ , CO, and Particulate)
V	Severe (for VOC, NO ₂)
X	Extreme (for VOC, NO ₂)
T	Transport Region, not serious, severe, or extreme (VOC only)
N	All other non-attainment for primary and secondary standards
1	Non-attainment for primary SO ₂ standards
2	Non-attainment for secondary PT or SO ₂ standards
U	Unclassified

Appendix C

EPA Compliance Status Codes

Valid EPA Compliance Status codes for the plant/source level (DCS1), air program level (DCA1), pollutant level (DCAP), as well as for the historic plant compliance fields (DCH1 and HDCS1) include:

Out of Compliance

- B = In violation with regard to both emissions and procedural compliance
- 1 = In violation—no schedule
- 6 = In violation—not meeting schedule
- W = In violation with regard to procedural compliance

Unknown Compliance

- Y = Unknown with regard to both emissions and procedural compliance
- 0 = Unknown compliance status
- A = Unknown with regard to procedural compliance
- 7 = In violation—unknown with regard to schedule

On Schedule

- 5 = Meeting compliance schedule

In Compliance

- C = In compliance with procedural requirements
- 4 = In compliance—certification
- 3 = In compliance—inspection
- M = In compliance—CEMS
- 2 = In compliance—source test
- 8 = No applicable state regulation
- 9 = In compliance—shut down
- P = Present, see other program(s)

Appendix D

EPA Classification Codes

Valid EPA Classification codes for the plant/source level (DCL1), the pollutant level (DCLP) and the air program level (DLA1) include:

EPA Classifications Codes	
Code	Description
A	Actual or potential emissions are above the applicable major source thresholds.
A1	Actual or potential controlled emissions >100 tons/year as per Alabama Power Decision.
E1	Unregulated pollutant actual or potential controlled emissions >100 tons/year as per Alabama Power Decision.
SM	Potential emissions are below all applicable Major Source enforceable regulations or limitations.
A2	Actual emissions <100 tons/year, but potential uncontrolled emissions >100 tons/year.
E2	Unregulated pollutant actual emission <100 tons/year.
B	Potential uncontrolled emissions <100 tons/year
ND	Major Source thresholds are not defined.
C	Class is unknown.
UK	Unknown.

Appendix E

Pollutant Codes

Pollutant Code (PLAP) values include:

Pollutant Codes	
Code	Description
AB	Asbestos
ACETY	Acetylenes (Alkynes)
ALDHY	Alddehydes
AROM	Aromatics
AS	Arsenic
ASC	Arsenic Compounds
BAC	Barium Compounds
BE	Beryllium
BEC	Beryllium Compounds
BZ	Benzene
CD	Cadmium
CDC	Cadmium compounds
CE	Coke Oven Emissions
CFC	Chlorofluorocarbons
CLPH	Chlorophenols
CNC	Cyanide Compounds
CO	Carbon Monoxide
COC	Cobalt Compounds
CRC	Chromium Compounds
CUC	Copper Compounds
FD	Fugitive Dust
FE	Fugitive Emissions
FL	Fluorides
GLYET	Glycol Ethers
H2S	Hydrogen Sulfide
HC	Total Hydrocarbons
HCL	Hydrochloric Acid
HF	Hydrofluoric Acid
HG	Mercury
HGC	Mercury Compounds
KETON	Ketones
MNC	Manganese Compounds
NH3	Ammonia
NIC	Nickel Compounds
NO	Nitric Oxide
NO2	Nitrogen Dioxide
OACID	Organic Acids
OD	Odors
OLEF	Olefins
OT	Other
P1	Fine Particulates: High probability of non-attainment
P2	Fine Particulates: Low probability of non-attainment
PARAF	Paraffins (Alkanes)
PB	Lead
PBB	Polybrominated Biphenyls

Pollutant Codes	
Code	Description
PBC	Lead Compounds
PM10	Particulate Matter
PM2.5	Particulate Matter
PNA	Polynuclear Aromatics
PT	Total Particulate Matter
PX	Default pollutant from CDS
SBC	Antimony Compounds
SEC	Selenium Compounds
SO2	Sulfur Dioxide
SO3	Sulfur Trioxide
SO4	Sulfates
TS	Total Reduced Sulfur
VC	Vinyl Chloride
VE	Visible Emissions
VOC	Volatile Organic Compounds
ZN	Zinc

Appendix F

Significant Violation Flag Codes

Valid Significant Violator Flag codes for SVI1, SVI2, SVI3, SVI4 and HSVI1 include:

Significant Violator Flag Codes	
Code	Description
E	Violation has not yet been addressed, EPA has lead enforcement.
S	Violation has not yet been addressed, state/local has lead enforcement.
B	Violation has not yet been addressed, EPA/state shared enforcement.
X	Violation has not yet been addressed, lead enforcement not determined.
C	The facility has progressed from an unaddressed significant violation to a compliance schedule; EPA/state share enforcement. (Source w/SVIL=B that changed Compliance Status Code from 1 or 6 to 5, 7, or 0.)
D	The facility has progressed from an unaddressed significant violation to compliance via inspection, source test, certification, facility shut down, or no applicable state regulation; EPA/state share enforcement. (Source w/SVIL=B that changed Compliance Status Code from 1 or 6 to 2, 3, 4, 8, or 9.)
F	The facility has progressed from an unaddressed significant violation to a compliance schedule; EPA has lead enforcement. (Source w/SVIL=E that changed Compliance Status Code from 1 or 6 to 5, 7, or 0.)
G	The facility has progressed from an unaddressed significant violation to compliance via inspection, source test, certification, facility shut down, or no applicable state regulation; EPA has lead enforcement. (Source w/SVIL=E that changed Compliance Status Code from 1 or 6 to 2, 3, 4, 8, or 9.)
T	The facility has progressed from an unaddressed significant violation to a compliance schedule; state has lead enforcement. (Source w/SVIL=S that changed Compliance Status Code from 1 or 6 to 5, 7, or 0.)
U	The facility has progressed from an unaddressed significant violation to compliance via inspection, source test, certification, facility shut down, or no applicable state regulation; state has lead enforcement. (Source w/SVIL=S that changed Compliance Status Code from 1 or 6 to 2, 3, 4, 8, or 9.)
H	EPA (lead) resolved in a prior fiscal year.
P	Both (lead) resolved in a prior fiscal year.
V	State (lead) resolved in a prior fiscal year.

Appendix G

Continuous Unaddressed Significant Violation Status Indicators

Figure 1, below, illustrates the relationship between SVSEQ (SV Sequence Number), SVADDR (Months to Address Continuous Unaddressed SV Status), SVMNTH (Latest Month Counted in SVADDR), and SNCCONT (Months of Continuous SNC).

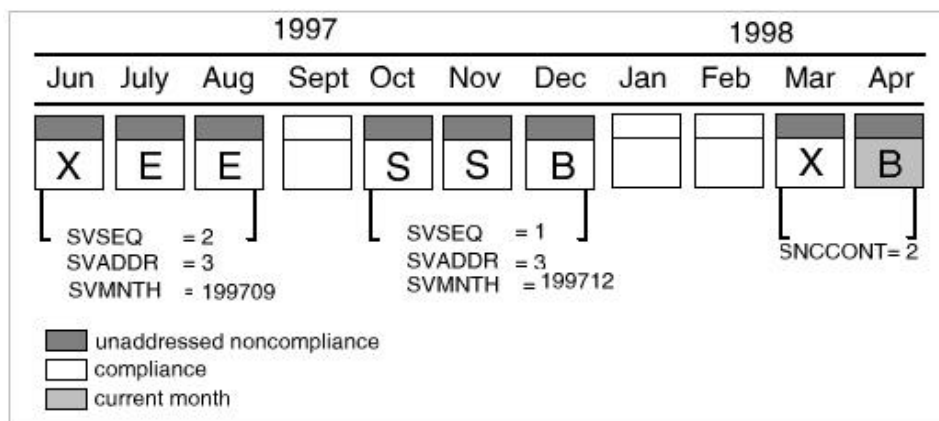


FIGURE 1 Continuous Unaddressed Significant Violation Indicators

SVSEQ (SV Sequence Number) designates a period of continuous unaddressed significant violation status. For any one source, IDEA counts only the two most recent periods of continuous unaddressed significant violation that occurred prior to the current month. SVSEQ values may either be 1 or 2, where 1 is the most recent period of continuous unaddressed significant violation, and 2 is the second most recent. In Figure 1, the most recent period of unaddressed significant violation that did not include the current month (in the diagram the current month is April 1998) was the period between October 1997 and December 1997. This period has been designated as SVSEQ=1.

SVADDR (Months to Address Continuous Unaddressed SV Status) counts the number months where unaddressed significant violations exist continuously for SVSEQ=1 and SVSEQ=2. SVADDR includes only those series of continuous unaddressed significant violations that do not include the current month (this series is assessed by SNCCONT). IDEA generates this field using HMONTH and HSVI1 where HSVI1 is equal to E, S, B, or X. In Figure 1, SVADDR is equal to 3 for the first Significant Violation Sequence (SVSEQ=1) because the sequence includes three months: October, November, and December.

SVMNTH (Latest Month Counted in SVADDR) indicates the year and month (YYYYMM) of the latest month of unaddressed significant violation status that was counted in the SVADDR sequence. IDEA generates this field using HMONTH and HSVI1 where HSVI1 is equal to E, S, B, or X. In Figure 1, SVMNTH is equal to 199712 for the first Significant Violation Sequence (SVSEQ=1) because the last month of unaddressed significant violation was December of 1997.

SNCCONT (Months of Continuous SNC) indicates the number months, including the most recent month, where unaddressed significant violations exist continuously. Because SNCCONT counts back from the most recent month, the field is blank if there is no current significant violation. IDEA generates this field using HMONTH and HSVI1, where HSVI1 is equal to E, S, B, or X. In Figure 1, SNCCONT is equal to 2 because two months, including the current month, have elapsed with continuous unaddressed significant violations. Previous periods of continuous unaddressed significant violations (that do not include the current month) are documented in the SVSEQ, SVADDR, and SVMNTH fields.

Attachment 1

AFS Data Elements (by data element name)

AFS Data Elements (by data element name)						
Element Name	Group	Index? (Y/N)	Enf. Sens?	Data Type	Length	Name
ACSEQ(K)	ACTN	N	S	Num	4	Sequence Number
AFSID	AFSID	Y	N	Char	10	AFS Identifier: State-County-Plant Number
ANT1	ACTN	Y	N	Char	2	National Action Type
ANU1(K)	ACTNR	Y	S	Num	3	Action Number
APC1	PRGM	Y	N	Char	1	Air Program Code
AQCA	SRCE	Y	N	Num	3	Air Quality Control Region Number
AST1	APRGM	Y	N	Char	1	Air Program Status
CAPP(K)	POLL	Y	S	Char	9	CAS Number
CYNM	SRCE	N	N	Char	30	Plant City
DANT1	ACTND	Y	N	Char	2	National Action Type Detail
DANU1(K)	ACTND	Y	S	Num	3	Action Number Detail
DAPC	ACTND	Y	N	Char	1	<i>Air Program Codes Index</i>
DAPCALL	ACTND	Y	N	Char	11	Air Program Codes Detail
DATP1	ACTND	Y	N	Char	2	Regional Action Type Detail
DATT	POLL	Y	N	Char	1	Attainment/Non-Attainment Indicator
DCA1	APRGM	Y	N	Char	1	EPA Air Program Compliance Status
DCAP	POLL	Y	N	Char	1	Pollutant Compliance Status
DCH1	HCPMLB	Y	N	Char	1	Historical Compliance Status
DCL1	SRCE	Y	N	Char	2	EPA Classification Code
DCLP	POLL	Y	N	Char	2	Pollutant Classification
DCS1	SRCE	Y	N	Char	1	EPA Compliance Status
DDTA1	ACTND	Y	N	Date	8	Date Achieved Detail
DIS17(K)	ACTND	N	S	Char	5	Indirect State Source ID Detail
DLA1	APRGM	Y	N	Char	2	EPA Classification Code
DPAM1	ACTND	Y	N	Num	7	Penalty Amount Detail
DTA1(K)	ACTN	Y	S	Date	8	Date Achieved (YYYYMMDD)
FEDREP	SRCE	Y	N	Char	1	Federally Reportable? (Y/N)
GOVT	SRCE	Y	N	Char	1	EPA Governmental Facility Code
HASH	SRCE	Y	N	Char	100	Primary Name Hash
HASHSEL	SRCE	Y	N	Char	4	<i>Primary Name Hash Index</i>
HDCS1	HCPMLA	Y	N	Char	1	Historical EPA Compliance Status
HDT1(K)	HCPMLB	Y	N	Date	5	Historical Compliance Date (YYYYQ)
HMONTH(K)	HCPMLA	Y	N	Date	4	Date of Historical Compliance Extract from AFS (YYYYMM)
HSV11	HCPMLA	Y	N	Char	1	Historical Significant Violator Flag
INFE	APRGM	N	N	Char	2	Even Inspection Frequency
INFO	APRGM	Y	N	Char	2	Odd Inspection Frequency
INSPDAY	SRCE	Y	N	Num	5	Days Since Last Inspection
IS17(K)	ACTNR	N	S	Char	5	Indirect State Source ID
ISGE	APRGM	Y	N	Char	1	Even Inspection Strategy
ISGO	APRGM	Y	N	Char	1	Odd Inspection Strategy
MDR	SRCE	Y	N	Char	1	National Minimum Data Requirements (Y/N)
OPST	SRCE	Y	N	Char	1	Operating Status
PAM1	ACTN	Y	N	Num	7	Penalty Amount (in thousands of dollars)
PLAP(K)	POLL	Y	N	Char	5	Pollutant Code
PNME	SRCE	N	N	Char	26	Plant Name
RANT1	ACTNR	Y	N	Char	2	National Action Type
RAPC	ACTNR	Y	N	Char	1	<i>Air Program Codes Index</i>
RAPCALL	ACTNR	Y	N	Char	11	Air Program Codes—all
RATP1	ACTNR	Y	N	Char	2	Regional Action Type
RDTA1	ACTNR	Y	N	Date	8	Date Achieved
RECAP	SRCE	Y	N	Char	1	National Accountability Measures (Y/N)
REGN	SRCE	Y	N	Char	2	Region
RPAM1	ACTNR	Y	N	Num	7	Penalty Amount

AFS Data Elements (by data element name)						
Element Name	Group	Index? (Y//N)	Enf. Sens?	Data Type	Length	Name
RVDT	APRGM	Y	N	Num	6	Repeat Violation Date
SIC1	SRCE	Y	N	Num	4	Primary SIC Code
SIC2	SRCE	Y	N	Num	4	Secondary SIC Code
SICC	SRCE	Y	N	Num	4	SIC Code (Primary or Secondary)
SNCCONT	SRCE	Y	N	Num	2	Months of Continuous SNC
SNCMNTH	SRCE	Y	N	Num	2	Months of SNC—last 2 years (SVI1-based)
SNCMTH2	SRCE	Y	N	Num	2	Months of SNC—last 2 years (HSV11 and HDCS1)
STAB	SRCE	Y	N	Char	2	AFS State Code
STRT	SRCE	N	N	Char	30	Plant Street Address
SVADDR	SVADDR	Y	N	Num	4	Months to Address Continuous Unaddressed SV Status
SVI1	SRCE	Y	N	Char	1	Significant Violator Flag 1
SVI2	SRCE	Y	N	Char	1	Significant Violator Flag 2
SVI3	SRCE	Y	N	Char	1	Significant Violator Flag 3
SVI4	SRCE	Y	N	Char	1	Significant Violator Flag 4
SVMNTH	SVADDR	Y	N	Num	6	Latest Month Counted in SVADDR (YYYYMM)
SVSEQ(K)	SVADDR	Y	S	Char	1	SV Sequence Number
TURN	APRGM	Y	N	Num	3	Turnover Compliance Flag
VIOLQTR	SRCE	Y	N	Num	2	# Quarters in Violation—last 2 years
YIFE	APRGM	Y	N	Char	2	Even Year of Inspection Frequency
YIFO	APRGM	Y	N	Char	2	Odd Year of Inspection Frequency
ZIPC	SRCE	Y	N	Char	9	Zip Code